



Fuels & Services Company

1901 Chouteau Avenue, MC 611
St. Louis, MO 63103

ORIGINAL

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Illinois Commerce Commission
RAIL SAFETY SECTION

December 27, 2004

Mr. Michael E. Stead
Rail Safety Program Administrator
Illinois Commerce Commission
527 East Capital Avenue
Springfield, IL 62701

RE: Docket No. T04-0084: Ameren Energy Resources Generating Company –
Railroad Grade Crossing Petition

Dear Mr. Stead:

In support of the subject filing, enclosed please find a copy of the bill material and circuit diagrams for the proposed warning devices for the Illinois Route 127 grade crossing. The attached information details the design and equipment proposed for the flashing lights and gates.

Please call me at 314-554-4252 if you have any questions or need additional information.

Very truly yours,

Glennon P. Hof
Transportation Director

CRH/
Enclosures

DOCKETED

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Hof/

RT. - A (STATE RT. #127)

~~RT. - B (CR. 9)~~

BILL OF MATERIALS

NOTE = Materials listed are the major materials needed. Other materials and quantity may be needed for the complete installation & placing-in-service of the warning signal system.

INSTRUMENT BUNGALOW

1 each	GCP 3000-D2 predictor- redundant, IPI island, key board display & (No dax modules)		
1 each	Track & battery surge panel	(80026-1)	Safetran Systems
1 each	500 ohm normal relay	(400000)	" "
1 each	500 ohm H.D. relay	(400023)	" "
1 each	194 ohm S.R. 3.0 - 3.75 sec.	(400200)	" "
1 each	60 ohm flasher relay with flash-pak	(400700-x)	" "
4 each	relay socket assembly with crimp tabs	(420000-43x)	" "
4 each	voltage test kits	(420000-46X)	" "
4 each	variable resistors .63 ohm	(029602-1x)	" "
1 each	variable resistor 10 ohm	(029603-5x)	" "
1 each	variable resistor 2 ohm	(029602-6x)	" "
1 each	relay wrench assembly	(032619-22x)	" "
6 each	padlocks hex type	(030399-16x)	" "
1 each	40 ETC-12 V.		Railway Equip.
1 each	20 ETC-12 V.		" "
1 set	7 cells of 475 aph. mtc. free battery		GNB.
1 set	6 cells of 368 aph. mtc. free battery		"
1 lot	2 3/8" terminal block		various vend.
1 lot	(1x12 or 2x6) terminal strips		" "
1 lot	1" test links (ug. cable @ bungalow & signal jct. box)		" "
1 lot	circuit tags		" "
1 lot	No #6 wire for battery charging circuits		" "
1 each	Secondary surge arrestor		" "
1 lot	No. #10 tc wire		Okonite
1 lot	No. #16 tc wire		"
1 lot	Insulated ring terminals (no. #10-12 & #14-16)		Tyco Ind.
1 lot	Ring terminals (no. #6 with 1/4" stud size)		" "
1 each	6'x 6' alum. bungalow with the following: telescoping foundations, breaker box, lights, conv. outlets, shelves, heater, vent fan, front & back door, backboard, plywood on left & right walls, two-step battery rack, 2 each power-off lights, 1 each S.&C. strobe light & relay filler plates.		PTMW., Inc.

SIGNAL HARDWARE

1 each =	Model #10' flasher-gate signal consist of the following: 3593B gate mechanism, alum-glass gate arm with led gate lights, break-away & adapter, two-way 12" led lights on mast, high wind guard, jct. box base, Railroad Crossing sign, electronic bell & all necessary mounting hardware.	
1 each =	Same as above except no bell.	W.C.. Hayes

INSTALLATION MATERIALS

2 each =	Galv. metal flasher-gate signal found. (48" tall with base plate)	L.&W.
1 lot =	7c x #6 ug. signal cable (bronze taped wrapped)	Okonite
1 lot =	7c x #9 ug. signal cable (" " ")	"
1 lot =	2c x #6 twisted track cable	"
4 each =	rubber bootleg kits	-----
4 each =	retainer rail clips	-----
4 each =	one-shot for 5/8" gnd.. rod	Erico
5 each =	5/8" x 8' gnd.. rods	-----
1 lot =	railhead bonds (3/16" x 6 1/2")	Erico
1 lot =	4" pvc conduit (under roadway & track)	-----
1 lot =	bondstrand	L.&W.
1 lot =	rolls of 33 plus tape	3- M
1 lot =	fill materials for bungalow & foundations (as needed)	-----
1 lot =	crushed rock for topping	local
1 lot =	alum. paint	-----
1 each =	ac meter loop arrangement & connection to bungalow	local